

APPLICANT: GOTHAIT, Hanan  
SERIAL NO.: 09/412,618  
FILED: October 6, 1999  
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**In the Claims:**

Please amend the claims as follows:

81 30. (Currently Amended) A method for three-dimensional printing of a model, said method comprising:

dispensing a first photopolymer and a second photopolymer from at least one printing head in variably selectable proportions, said first photopolymer and said second photopolymer being different; and

~~combining said first and second photopolymers in a variably selectable proportion to produce a third material~~

said first photopolymer and said second photopolymer mixing within the same layer to produce a layer of third material, said third material being a photopolymer having prerequisite hardness and modulus of elasticity.

82 34. (Currently Amended) A system for three-dimensional printing of a model, the system comprising:

at least one print head;

at least first and second dispensers connected to said at least one printing head for dispensing at least first and second photopolymers respectively in variably selectable proportions, said first photopolymer and said second photopolymer being different; and

a controller connected to said at least one printing head to cause said at least one printing head to dispense said first ~~photopolymer~~ and second ~~photopolymers~~ photopolymer, so that said first photopolymer and second photopolymer mix within the same layer to produce a layer of third material, said third material being a photopolymer layer having prerequisite hardness and modulus of elasticity. ~~photopolymers are combined in a variably selectable proportion to produce a third material.~~

83 36. (Currently Amended) A system for three dimensional printing of a model, the system comprising:

at least one printing head, having a plurality of nozzles;

a plurality of dispensers connected to said at least one printing head for dispensing a plurality of different photopolymers, each photopolymer having a different color; and

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a controller connected to said at least one printing head for combining said plurality of photopolymers in variably selectable proportions; ~~to produce a third material~~ said plurality of photopolymers mixing within the same layer to produce a layer of third material.

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